# Automation 16 - FITB (KC)

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# Contents

**Introduction**

# Introduction

We have a way forward in the world of Quark

# 1 BPP-9454: ACCA - QnA

# Fill in the blanks - Regression test file

## 1 General output overview

### Illustration 1: FITB output for text

This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

**Solution**

Artemis is the daughter of [Zeus] and Leto, and the twin sister of [Apollo] .

This is the question debrief.

### Illustration 2: FITB output for tables

1   This is the first question scenario.

**Required**

This is the first question requirement. Fill in the blanks in the table below:

| Greek god | Roman equivalent |
|-----------|------------------|
| Athena    | [_____]         |
| Hermes    | [_____]         |

2   This is the second question requirement. Fill in the blanks in the computation table below:

|                        | Athena    | Poseidon |
|------------------------|-----------|----------|
|                        | £         | £        |
| Temple building costs  | [_____]  | 45,000   |
| Festival costs         | 200,000   | [_____] |

**Solution**

1

| Greek god | Roman equivalent |
|-----------|------------------|
| Athena | Minerva |
| Hermes | Mercury |

This is the first question debrief.

2

|  | Athena | Poseidon |
|--|--------|----------|
|  | £ | £ |
| Temple building costs | 20,000 | 45,000 |
| Festival costs | 200,000 | 150,000 |

This is the second question debrief.

# 2 Test scenarios

## 2.1 Illustrations: QnAs with only FITBs

### Illustration 3: 1 question (scenario)

This is the question scenario. Fill in the blanks in the sentence below:

**Required**

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____]

**Solution**

Artemis is the daughter of | Zeus | and Leto, and the twin sister of | Apollo. |

This is the question debrief.

### Illustration 4: 1 question (requirement)

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

**Solution**

Artemis is the daughter of | Zeus | and Leto, and the twin sister of | Apollo | .

This is the question debrief.

### Illustration 5: 1 question, 1 sub-question

This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

(a) This is the sub-question scenario.

**Required**

This is the sub-question requirement. Fill in the blanks in the sentence below:

Athena is usually shown in art wearing a [_____] and holding a spear.

**Solution**

Artemis is the daughter of [Zeus] and Leto, and the twin sister of [Apollo] .

This is the question debrief.

(a) Athena is usually shown in art wearing a [helmet] and holding a spear.

This is the sub-question debrief.

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## Illustration 6: 1 question, 2 sub-questions

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

(a) This is the first sub-question requirement. Fill in the blanks in the sentence below:

Athena is usually shown in art wearing a [_____] and holding a spear.

(b) This is the second sub-question requirement. Fill in the blanks in the sentence below:

Athena was the patron goddess of [_____] endeavor.

**Solution**

Artemis is the daughter of [Zeus] and Leto, and the twin sister of [Apollo] .

This is the question debrief.

(a) Athena is usually shown in art wearing a [helmet] and holding a spear.

This is the first sub-question debrief.

(b) Athena was the patron goddess of [heroic] endeavor.

This is the second sub-question debrief.

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## Illustration 7: 1 question, 2 sub-questions (no scenario or requirement text)

This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

(a) Athena is usually shown in art wearing a [_____] and holding a spear.

(b) Athena was the patron goddess of [_____] endeavor.

**Solution**

Artemis is the daughter of | Zeus | and Leto, and the twin sister of | Apollo | .

This is the question debrief.

(a)  Athena is usually shown in art wearing a | helmet | and holding a spear.

   This is the first sub-question debrief.

(b)  Athena was the patron goddess of | heroic | endeavor.

   This is the second sub-question debrief.

---

## Illustration 8: 2 questions

1   This is the first question scenario.

   **Required**

   This is the first question requirement. Fill in the blanks in the sentence below:

   Athena is usually shown in art wearing a [                ] and holding a spear.

2   This is the second question requirement. Fill in the blanks in the sentence below:

   Athena was the patron goddess of [                ] endeavor.

**Solution**

1   Athena is usually shown in art wearing a | helmet | and holding a spear.

   This is the first question debrief.

2   Athena was the patron goddess of | heroic | endeavor.

   This is the second question debrief.

---

## 2.2  Illustrations: QnAs with a mix of FITBs and non-FITBs

## Illustration 9: 1 question (FITB), 1 question (non-FITBs)

1   This is the first question scenario.

   **Required**

   This is the first question requirement. Fill in the blanks in the sentence below:

   Athena is usually shown in art wearing a [                ] and holding a spear.

2   This is the second question scenario.

   **Required**

   This is the second question requirement.

**Solution**

1   Athena is usually shown in art wearing a | helmet | and holding a spear.

This is the first question debrief.

2   This is the second question debrief.

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### Illustration 10: 1 question (non-FITB), 2 sub-questions (FITB, no scenario or requirement text)

This is the question scenario. Fill in the blanks in the sentences below:

**Required**

(a)   Athena is usually shown in art wearing a [          ] and holding a spear.

(b)   Athena was the patron goddess of [          ] endeavor.

**Solution**

This is the question debrief.

(a)   Athena is usually shown in art wearing a [ helmet ] and holding a spear.

   This is the first sub-question debrief.

(b)   Athena was the patron goddess of [ heroic ] endeavor.

   This is the second sub-question debrief.

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## 2.3   Illustrations: FITBs with emphases

### Illustration 11: QnA with FITB text with emphases

This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

This sentence contains [          ] , [          ] , [          ] and [          ] .

**Solution**

This sentence contains [ **bold** text ] , [ *italic* text ] , [ superscript text ] and [ subscript text ] .
This is the question debrief.

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### Illustration 12: QnA with FITB tables with emphases

1   This is the first question scenario.

   **Required**

   This is the first question requirement. Fill in the blanks in the table below:

   | Emphases | FITB |
   | --- | --- |
   | Bold, italic | [          ] |

| Emphases | FITB |
|----------|------|
| Underlined | |
| Superscript, subscript | |

2   This is the second question requirement. Fill in the blanks in the computation table below:

| | Athena | Poseidon |
|---|---|---|
| | £ | £ |
| Temple building costs | | 45,000 |
| Festival costs | 200,000 | |
| General worship fees | | |

**Solution**

1

| Emphases | FITB |
|----------|------|
| Bold, italic | **Bold**, *italic* |
| Underlined | <u>Underlined</u> |
| Superscript, subscript | Superscript, subscript |

This is the first question debrief.

2

| | Athena | Poseidon |
|---|---|---|
| | £ | £ |
| Temple building costs | **20,000** | 45,000 |
| Festival costs | 200,000 | *150,000* |
| General worship fees | <u>12,000</u> | <u>30,000</u> |

This is the second question debrief.

## 2.4   Activities: QnAs with only FITBs

### Activity 1: 1 question (scenario)

This is the question scenario. Fill in the blanks in the sentence below:

**Required**

Artemis is the daughter of [ ] and Leto, and the twin sister of [ ] .

### Activity 2: 1 question (requirement)

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

## Activity 3: 1 question, 1 sub-question

This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

(a)   This is the sub-question scenario.

> **Required**
>
> This is the sub-question requirement. Fill in the blanks in the sentence below:
>
> Athena is usually shown in art wearing a [_____] and holding a spear.

## Activity 4: 1 question, 2 sub-questions

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

(a)   This is the first sub-question requirement. Fill in the blanks in the sentence below:

> Athena is usually shown in art wearing a [_____] and holding a spear.

(b)   This is the second sub-question requirement. Fill in the blanks in the sentence below:

> Athena was the patron goddess of [_____] endeavor.

## Activity 5: 1 question, 2 sub-questions (no scenario or requirement text)

This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [_____] and Leto, and the twin sister of [_____] .

(a)   Athena is usually shown in art wearing a [_____] and holding a spear.

(b)   Athena was the patron goddess of [_____] endeavor.

## Activity 6: 2 questions

1   This is the first question scenario.

**Required**

This is the first question requirement. Fill in the blanks in the sentence below:

Athena is usually shown in art wearing a [_____] and holding a spear.

2   This is the second question requirement. Fill in the blanks in the sentence below:

Athena was the patron goddess of [          ] endeavor.

## 2.5  Activities: QnAs with a mix of FITBs and non-FITBs

### Activity 7: 1 question (FITB), 1 question (non-FITBs)

1   This is the first question scenario.

**Required**

This is the first question requirement. Fill in the blanks in the sentence below:

Athena is usually shown in art wearing a [          ] and holding a spear.

2   This is the second question scenario.

**Required**

This is the second question requirement.

### Activity 8: 1 question (non-FITB), 2 sub-questions (FITB, no scenario or requirement text)

This is the question scenario. Fill in the blanks in the sentences below:

**Required**

(a)   Athena is usually shown in art wearing a [          ] and holding a spear.

(b)   Athena was the patron goddess of [          ] endeavor.

## 2.6  Activities: FITBs with emphases

### Activity 9: QnA with FITB text with emphases

This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

This sentence contains [          ] , [          ] , [          ] and [          ] .

### Activity 10: QnA with FITB tables with emphases

1   This is the first question scenario.

**Required**

This is the first question requirement. Fill in the blanks in the table below:

| Emphases | FITB |
|---|---|
| Bold, italic | |
| Underlined | |
| Superscript, subscript | |

2   This is the second question requirement. Fill in the blanks in the computation table below:

|  | Athena | Poseidon |
|---|---|---|
|  | £ | £ |
| Temple building costs | | 45,000 |
| Festival costs | 200,000 | |
| General worship fees | | |

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# Activity answers

### Activity 1: 1 question (scenario)

Artemis is the daughter of | Zeus | and Leto, and the twin sister of | Apollo | .

This is the question debrief.

### Activity 2: 1 question (requirement)

Artemis is the daughter of | Zeus | and Leto, and the twin sister of | Apollo | .

This is the question debrief.

### Activity 3: 1 question, 1 sub-question

Artemis is the daughter of | Zeus | and Leto, and the twin sister of | Apollo | .

This is the question debrief.

(a)   Athena is usually shown in art wearing a | helmet | and holding a spear.

This is the sub-question debrief.

### Activity 4: 1 question, 2 sub-questions

Artemis is the daughter of | Zeus | and Leto, and the twin sister of | Apollo | .

This is the question debrief.

(a)   Athena is usually shown in art wearing a | helmet | and holding a spear.

This is the first sub-question debrief.

(b)   Athena was the patron goddess of | heroic | endeavor.

This is the second sub-question debrief.

### Activity 5: 1 question, 2 sub-questions (no scenario or requirement text)

Artemis is the daughter of | Zeus | and Leto, and the twin sister of | Apollo | .

This is the question debrief.

(a)   Athena is usually shown in art wearing a | helmet | and holding a spear.

This is the first sub-question debrief.

(b)   Athena was the patron goddess of | heroic | endeavor.

This is the second sub-question debrief.

### Activity 6: 2 questions

1   Athena is usually shown in art wearing a | helmet | and holding a spear.

This is the first question debrief.

2   Athena was the patron goddess of | heroic | endeavor.

This is the second question debrief.

### Activity 7: 1 question (FITB), 1 question (non-FITBs)

1   Athena is usually shown in art wearing a  helmet  and holding a spear.

This is the first question debrief.

2   This is the second question debrief.

### Activity 8: 1 question (non-FITB), 2 sub-questions (FITB, no scenario or requirement text)

This is the question debrief.

(a)  Athena is usually shown in art wearing a  helmet  and holding a spear.

This is the first sub-question debrief.

(b)  Athena was the patron goddess of  heroic  endeavor.

This is the second sub-question debrief.

### Activity 9: QnA with FITB text with emphases

This sentence contains  **bold** text ,  *italic* text ,  $^{superscript}$ text  and  $_{subscript}$ text .
This is the question debrief.

### Activity 10: QnA with FITB tables with emphases

1

| Emphases | FITB |
|---|---|
| Bold, italic | **Bold**, *italic* |
| Underlined | Underlined |
| Superscript, subscript | $^{Superscript}$, $_{subscript}$ |

This is the first question debrief.

2

|  | Athena | Poseidon |
|---|---|---|
|  | £ | £ |
| Temple building costs | **20,000** | 45,000 |
| Festival costs | 200,000 | *150,000* |
| General worship fees | 12,000 | 30,000 |

This is the second question debrief.

# Test your learning

1   1 question (scenario). This is the question scenario. Fill in the blanks in the sentence below:

**Required**

Artemis is the daughter of [            ] and Leto, and the twin sister of [            ] .

2   1 question (requirement). This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [            ] and Leto, and the twin sister of [            ] .

3   1 question, 1 sub-question. This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [            ] and Leto, and the twin sister of [            ] .

(i)   This is the sub-question scenario.

**Required**

This is the sub-question requirement. Fill in the blanks in the sentence below:

Athena is usually shown in art wearing a [            ] and holding a spear.

4   1 question, 2 sub-questions. This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [            ] and Leto, and the twin sister of [            ] .

(i)   This is the first sub-question requirement. Fill in the blanks in the sentence below:

Athena is usually shown in art wearing a [            ] and holding a spear.

(ii)   This is the second sub-question requirement. Fill in the blanks in the sentence below:

Athena was the patron goddess of [            ] endeavor.

5   1 question, 2 sub-questions (no scenario or requirement text). This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

Artemis is the daughter of [            ] and Leto, and the twin sister of [            ] .

(i)   Athena is usually shown in art wearing a [            ] and holding a spear.

(ii)   Athena was the patron goddess of [            ] endeavor.

6   (a)   2 questions. This is the first question scenario.

**Required**

This is the first question requirement. Fill in the blanks in the sentence below:

Athena is usually shown in art wearing a [            ] and holding a spear.

(b)   This is the second question requirement. Fill in the blanks in the sentence below:

Athena was the patron goddess of [          ] endeavor.

7  (a)  1 question (FITB), 1 question (non-FITBs). This is the first question scenario.

**Required**

This is the first question requirement. Fill in the blanks in the sentence below:

Athena is usually shown in art wearing a [          ] and holding a spear.

   (b)  This is the second question scenario.

**Required**

This is the second question requirement.

8  1 question (non-FITB), 2 sub-questions (FITB, no scenario or requirement text). This is the question scenario. Fill in the blanks in the sentences below:

**Required**

(i)    Athena is usually shown in art wearing a [          ] and holding a spear.

(ii)   Athena was the patron goddess of [          ] endeavor.

9  QnA with FITB text with emphases. This is the question scenario.

**Required**

This is the question requirement. Fill in the blanks in the sentence below:

This sentence contains [          ] , [          ] , [          ] and
[          ] .

10  (a)  QnA with FITB tables with emphases. This is the first question scenario.

**Required**

This is the first question requirement. Fill in the blanks in the table below:

| Emphases | FITB |
|---|---|
| Bold, italic | [          ] |
| Underlined | [          ] |
| Superscript, subscript | [          ] |
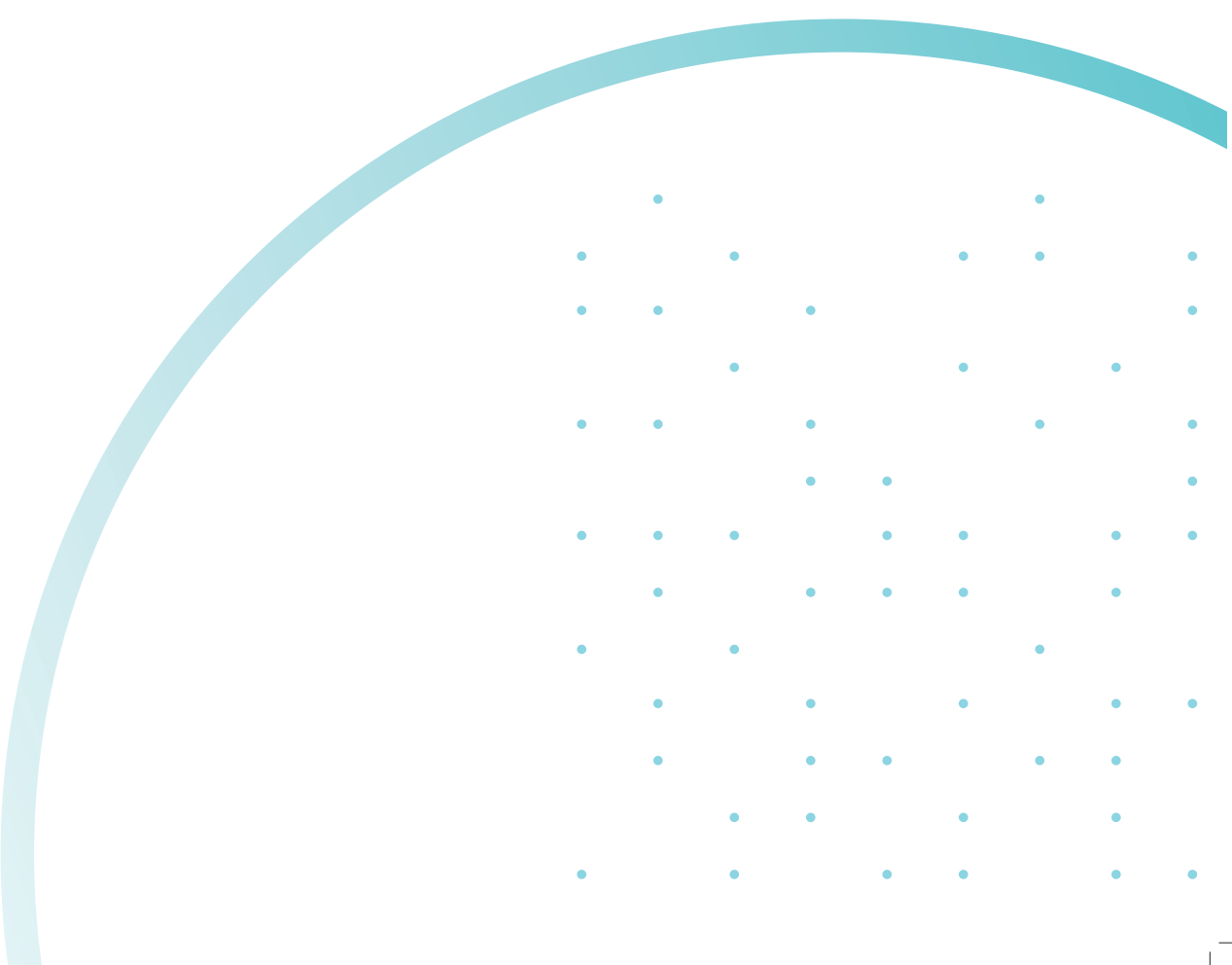
   (b)  This is the second question requirement. Fill in the blanks in the computation table below:

|  | Athena | Poseidon |
|---|---|---|
|  | £ | £ |
| Temple building costs | [          ] | 45,000 |
| Festival costs | 200,000 | [          ] |
| General worship fees | [          ] | [          ] |

# Appendix 1: Formulae, ratios and mathematical tables

## Appendices

### Appendix A: Formulae and ratios that you need to learn

**Profitability ratios:**

$$\text{ROCE} = \frac{\text{Profit from operations (before interest and tax)}}{\text{Capital employed}}$$

**Debt ratios** include:

$$\text{Gearing} = \frac{\text{Value of debt}}{\text{Value of equity (or debt + equity)}}$$

$$\text{Interest cover} = \frac{\text{Profit from operations}}{\text{Interest}}$$

**Liquidity ratios:**

$$\text{Current ratio} = \frac{\text{Current assets}}{\text{Current liabilities}}$$

**Shareholder investor ratios** include:

$$\text{Dividend yield} = \frac{\text{Dividend per share}}{\text{Share price}} \times 100$$

$$\text{Earnings per share (EPS)} = \frac{\text{Profits after tax - preference dividend}}{\text{Number of ordinary shares}}$$

$$\text{Price to earnings ratio (P/E)} = \frac{\text{Share price}}{\text{EPS}}$$

**Working capital ratios**

Operating cycle = inventory days + receivable days – payables days

Inventory days = inventory/cost of sales × 365

Receivables days = trade receivables/(credit) sales × 365

Payables days = trade payables/(credit) purchases × 365

Sales to net working capital ratio = sales/net working capital (excl cash)

**Cost of capital formulae:**

$$K_d = \frac{I(1 - t)}{P_0}$$

$$K_p = \frac{d}{p}$$

**Other useful formulae to learn:**

$$IRR = a\% + \left[\frac{NPV_a}{NPV_a - NPV_b} \times (b\% - a\%)\right]$$

$$\text{Total shareholder return} = \frac{\text{dividend gain + capital}}{\text{share price at start year}}$$

$$EAC = \frac{\text{NPV of costs}}{\text{Annuity factor for life of the project}}$$

$$\text{Profitability index} = \frac{\text{Present value of cash inflows (or NPVof the project)}}{\text{Present value of cash outflows}}$$

## Appendix B: Mathematical tables

Present Value Table

**Annuity Table**

**Formula Sheet**

**Economic Order Quantity**

$$= \sqrt{\frac{2C_0D}{C_H}}$$

**Miller-Orr Model**

$$\text{Return point} = \text{Lower limit} + (\tfrac{1}{3} \times \text{spread})$$

$$\text{Spread} = 3\left[\frac{\tfrac{3}{4} \times \text{transaction cost} \times \text{variance of cash flows}}{\text{Interest rate}}\right]^{\tfrac{1}{3}}$$

**The Capital Asset Pricing Model**

$$E(n) = R_f + \beta_i(E(r_m) - R_f)$$

**The asset beta formula**

$$\beta_a = \left[\frac{V_e}{(V_e + V_d(1-T))}\beta_e\right] + \left[\frac{V_d(1-T)}{(V_e + V_d(1-T))}\beta_d\right]$$

**The Growth Model**

$$P_0 = \frac{D_0(1 + g)}{(r_e - g)} \qquad r_e = \frac{D_0(1 + g)}{P_0} + g$$

**Gordon's Growth Approximation**

g = br

**The weighted average cost of capital**

$$\text{WACC} = \left[\frac{V_e}{V_e + V_d}\right]k_e + \left[\frac{V_d}{V_e + V_d}\right]k_d(1 - T)$$

**The Fisher formula**

$$(1 + i) = (1 + r)(1 + h)$$

**Purchasing Power Parity and Interest Rate Parity**

$$S_1 = S_0 \times \frac{(1 + h_c)}{(1 + h_b)} \qquad F_0 = S_0 \times \frac{(1 + i_c)}{(1 + i_b)}$$

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2. Error Code: -43 - File not found. : Error Context :  Layout=BPP, Box=Content_Left_Logo*